



THE PRIME EXAMINATIONS 2024

P.6 BEGINNING OF TERM III MATHEMATICS (New Curriculum)

Time allocated 2 hours 30 minutes



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Name:.....

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has two sections: A and B. Section A has 20 questions (40 Marks) and Section B has 12 questions. (60 Marks)
2. Answer ALL questions. All the working for both sections A and B must be shown in the spaces provided.
3. All working must be done using a blue or black ball point pen or ink. Any work done in pencil other than on graphs and diagrams will not be marked.
4. No calculators are allowed in the examination room.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table indicated

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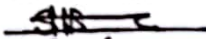
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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED

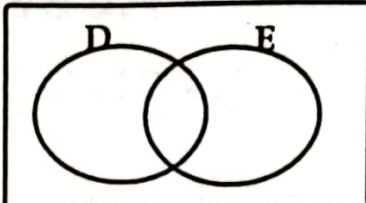

Consultant
Mathematics Department (PEC)

Turn Over

Organised by: PRIME EDUCATIONAL CONSULT @2024 Kampala

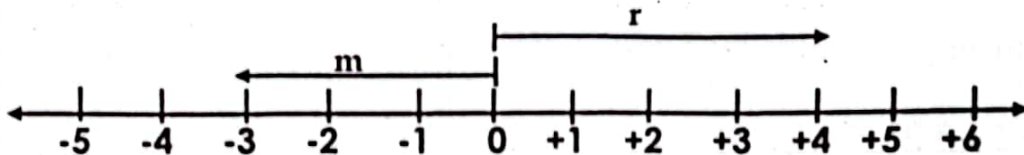
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Section A (40 Marks)

1	<p>Fill in the empty gap correctly.</p> <p>405 = _____ hundreds + 0 tens + 5 ones</p>	2	<p>Shade(DUE) complement.</p> 
3	<p>Write in figures: 72906</p>	4	<p>Write 0.25 as a common fraction in its lowest term.</p>
5	<p>Simplify: $2k + 6p + 3k + 10p$</p>	6	<p>Find the next number in the sequence. 13, 15, 18, 23, 30, _____</p>
7	<p>Five pens cost sh.3000. Find the number of pens Joshua could get if he had sh.4200.</p>	8	<p>Find the number of members in a set with 16 subsets.</p>
9.	<p>Kana slept at 10:40pm. Write this time in 24hr clock.</p>		

10 Draw an angle of 60° in the space below.

11 Write the integers represented by letters r and m.



(i) arrow m = _____

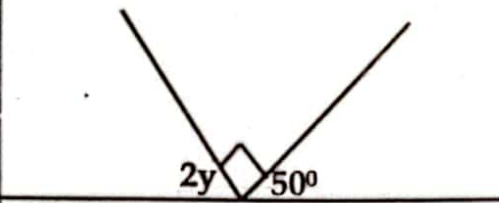
(ii) arrow r = _____

12 Write the following expression as a single number.
 $8^2 + 9^0 \times 6^2$

13 Write CXCIV in Hindu - Arabic numerals.

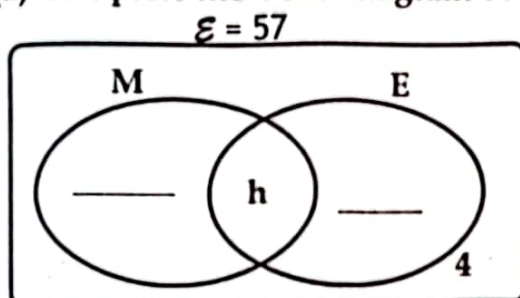
14 In a certain school, there were 600 pupils last year. This year, the number has been increased by $12\frac{1}{3}\%$. Find the new number of pupils in the school.

15 On a line of boys and only one girl, the girl is standing on the 12th position from either side of the line. Find the total number of all the pupils on the line.

16	<p>Find the value of y in the diagram below.</p> 	17 Eight men can do a piece of work in 12 days. How many men can do the same work in six (6) days?
18	Workout the square root of 196.	19 Find the median of 20, 70, 32, 65, 48
20	The perimeter of a square is 40m. Find the area of the square.	
<u>Section B (60 marks)</u>		
21	<p>(a) Workout: $\frac{0.06 + 0.3}{0.09}$ (02 marks)</p> <p>(b) Change $\frac{3}{4}$ to decimal. (03 marks)</p>	

- 22 Jamal deposited sh.800,000 in a commercial bank at a rate of 10% per annum. Calculate the total amount he found on his account after 9 months. (05 marks)

- 23 In a class of 57 pupils, 32 like Maths(M), 27 like English(E), h pupils like both subjects while 4 pupils like other subjects. (a) Complete the Venn diagram below. (02 marks)



- (b) Find the value of h. (02 marks)
- (c) Find the probability of picking a pupil at random who does not like English. (02 marks)

- 24 The table below shows marks obtained by pupils of P.6 in their E.O.T two exams.

Marks	40	30	75	60
Frequency	2	4	2	2

- (a) Workout the average mark. (02 marks)

	(a) Find the range of the marks. (02 marks)
25	<p>(a) Solve: $2k + 7 = 19$ (02 marks)</p> <p>(b) Given that $a = 4$, $b = 3$ and $c = 2$. Find the value of $3ba - 5c$ (03 marks)</p>
26	The sum of three consecutive odd numbers is 39. Find all the numbers. (05 marks)
27	<p>(a) Change 113_{five} to decimal base. (02 marks)</p> <p>(b) Workout: $\begin{array}{r} 104_{\text{five}} \\ - 33_{\text{five}} \\ \hline \end{array}$ (02 marks)</p>

(c) What is the place value of 2 in 213_{five}?

(01 mark)

8 Three boys; Bosco, Jude and Abdu shared sh.108000 among themselves in the ratio 2: 3: 5 respectively.

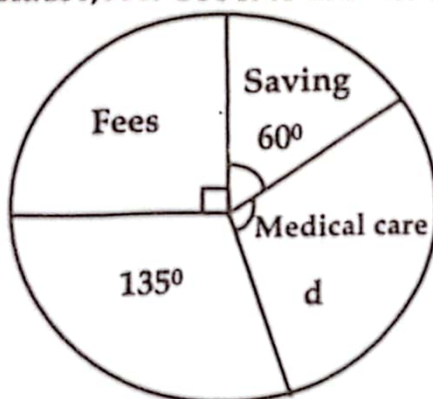
(a) How much did each get?

(03 marks)

(b) How much more did Abdu get than Jude?

(02 marks)

29 The pie chart below shows how Mukulu Kwagala spends his monthly salary of sh.480,000. Use it to answer the questions.



(a) Find the value of d in degrees.

(02 marks)

(b) How much more money does he spend on food than on medical care?

(03 marks)

30	<p>With the help of a ruler, a sharp pencil and a pair of compasses only, construct a rectangle KLMN where $\overline{KL} = 7\text{cm}$ and $\overline{LM} = 4\text{cm}$. (05 marks)</p>
31	<p>A taxi travelling at a speed of 50km/h left Kampala at 10:50a.m and reached Mbale at 3:20p.m.</p> <p>(a) How much time did the taxi take to cover the journey? (03 marks)</p> <p>(b) Calculate the distance between Kampala and Mbale. (02 marks)</p>
32	<p><u>Study the exchange rates below and use them to answer the questions that follow.</u></p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Ksh.1 costs Ush.27</p> <p>US \$ 1 costs Ush.3600</p> </div> <p>(a) Convert US\$ 340 to Ugandan shillings. (02 marks)</p> <p>(b) Convert Ksh. 216000 to United States dollars (\$). (03 marks)</p>